

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) No 1222/2013, ANNEX. (See end of Document for details)

ANNEX

Identification number of the additive	Name of the holder of authorisation	Additive	Chemical formula, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisation	
						mg/kg of complete feedingstuff with a moisture content of 12 %				
Category of technological additives. Functional group: silage additives										
1k280	—	Propionic acid		<p>Additives – composition</p> <p>Pigs</p> <p>Poultry</p> <p>≥ 99,5 %</p> <p><i>Characterisation of the active substance</i></p> <p>Propionic acid ≥ 99,5 % C₃H₆O₂ CAS No: 79-09-4</p> <p>Non-volatile residue ≤ 0,01 % when dried at 140 °C to constant weight</p> <p>Aldehydes ≤ 0,1 % expressed as formaldehyde</p> <p>Produced by</p>	—	—	30 000	10 000	<p>1.</p> <p>2.</p> <p>3.</p>	<p>20 December 2025</p> <p>The simultaneous use of other organic acids at the maximum permitted doses is contraindicated.</p> <p>The additive shall be used in easy to ensile material^b.</p> <p>Simultaneous use with other sources of the active substance</p>

a Details of the analytical methods are available at the following address of the Reference Laboratory: http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/Pages/index.aspx

b Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1).

c As propionic acid.

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				chemical synthesis			shall not exceed the authorised maximum content.
				<i>Method of Analysis^a</i> Quantification of propionic acid as total propionic acid in feed additive, premixtures, feedingstuffs: ion exclusion High Performance Liquid Chromatography with refractive index (HPLC-RI)			4. For safety: breathing protection, eye protection, gloves and protective clothing shall be used during handling.
1k281	—	Sodium propionate	<i>Additives – composition</i> Sodium propionate Purity $\geq 98,5\%$ <i>Characterisation of the active substance</i>	Sodium propionate $\geq 98,5\%$ $C_3H_5O_2Na$ CAS No: 137-40-6	— — —	— 30 000 ^c 10 000 ^c	1. The simultaneous use of other organic acids at the maximum permitted doses is contraindicated. 2. The additive

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				Loss on drying $\leq 4\%$ determined by drying for two hours at 105 °C			shall be used in easy to ensile materials ^b .
				Water insolubles $\leq 0,1\%$ Produced by chemical synthesis		3.	Simultaneous use with other sources of the active substance shall not exceed the authorised maximum content.
			<i>Method of Analysis^a</i>	Quantification of sodium propionate in feed additive:		4.	For safety: breathing protection, eye protection, gloves and protective clothing shall be used during handling.
			(1)	ion exclusion High Performance Liquid Chromatography with refractive index detection (HPLC-RI) – for the determination of total			

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			(2)	propionate; and atomic absorption spectrometry, AAS (EN ISO 6869) – for the determination of total sodium. Quantification of sodium propionate as total propionic acid in premixtures, feedingsuffs: ion exclusion High Performance Liquid Chromatography with refractive index (HPLC- RI)				
1k284	—	Ammonium propionate	Additives composition Pigs Preparation	—	—	1.	20 December 2023 The simultaneous use of other organic acids at	
			Poultry ammonium propionate ≥ 19,0 %, propionic acid	—	30 000 ^c			
				—	10 000 ^c			

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b Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1).

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			<p>≤ 80,0 % and water ≤ 30 %</p> <p><i>Characterisation of the active substance</i></p> <p>Ammonium propionate: C₃H₉O₂N CAS No: 17496-08-1 Produced by chemical synthesis</p> <p><i>Method of Analysis^a</i> Quantification of the ammonium propionate in feed additive: (1)</p> <p>ion exclusion High Performance Liquid Chromatography with refractive index detection (HPLC- RI) – for the determination of</p>	<p>2.</p> <p>3.</p> <p>4.</p>	<p>the maximum permitted doses is contraindicated.</p> <p>The additive shall be used in easy to ensile materials^b.</p> <p>Simultaneous use with other sources of the active substance shall not exceed the authorised maximum content.</p> <p>For safety: breathing protection, eye protection, gloves and protective clothing shall be used</p>
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			(2)	total propionate; and titration with sulphuric acid and sodium hydroxide for the determination of ammonia.		during handling.
			Quantification of ammonium propionate as total propionic acid in premixtures, feedingsuffs: ion exclusion High Performance Liquid Chromatography with refractive index (HPLC-RI)			
a	Details of the analytical methods are available at the following address of the Reference Laboratory: http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/Pages/index.aspx					
b	Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1).					
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